

Claims

- [c1] What is claimed is:
- 1.A method for displaying a plurality of measurement data along a borehole trajectory, comprising:
displaying a borehole model representing the borehole trajectory; and
displaying the plurality of measurement data as at least one layer overlaying the borehole model, wherein the plurality of measurement data are displayed at measurement depths corresponding to measurement depths of the borehole model.
 - [c2] 2.The method of claim 1, wherein the borehole model has a diameter related to a borehole diameter determined with a tool.
 - [c3] 3.The method of claim 2, further comprising mapping measurement data on a surface of the borehole model.
 - [c4] 4.The method of claim 1, wherein the at least one layer comprises at least two layers displayed with different diameters.
 - [c5] 5.The method of claim 4, wherein the different diameters represent different depths of investigation.
 - [c6] 6.The method of claim 1, wherein the at least one layer is displayed in different transparency.

- [c7] 7.The method of claim 6, wherein the different transparency is set according to a selected function.
- [c8] 8.The method of claim 7, wherein the selected function is dependent on measurement values in the plurality of measurement data.
- [c9] 9.The method of claim 1, further comprising displaying a measurement value associated with a cursor location.
- [c10] 10.The method of claim 9, wherein the cursor location is user selected.
- [c11] 11.The method of claim 1, wherein the plurality of measurement data comprise well logging data.
- [c12] 12.The method of claim 11, wherein the well logging data comprise at least one selected from the group consisting of resistivity data, neutron measurement data, gamma ray measurement data, nuclear magnetic resonance data, and acoustic measurement data.
- [c13] 13.The method of claim 1, further comprising selectively displaying a portion of the borehole model and the at least one layer by removing an angular section of the borehole model and the at least one layer.
- [c14] 14.The method of claim 13, wherein the angular section is reference to a user coordinate.

- [c15] 15.The method of claim 1, wherein the borehole model and the at least one layer are displayed in a cross-section view.
- [c16] 16.The method of claim 1, further comprising displaying a plane intercepting the borehole model.
- [c17] 17.The method of claim 11, wherein the plane is a dip plane.
- [c18] 18.The method of claim 11, further comprising adjusting the plane to fit a pattern of measurement values displayed on the at least one layer.
- [c19] 19.A system for displaying a plurality of measurement data along a borehole trajectory, comprising:
a display;
a computer operatively coupled to the display, the computer having a program to display a borehole model representing the borehole trajectory on the display, the program comprising instructions to enable:
displaying the plurality of measurement data as at least one layer overlaying the borehole model, wherein the plurality of measurement data are displayed at measurement depths corresponding to measurement depths of the borehole model.
- [c20] 20.The system of claim 19, wherein the borehole model has a diameter related to a borehole diameter determined with a tool.

- [c21] 21.The system of claim 20, the program further comprising instructions to enable mapping measurement data on a surface of the borehole model.
- [c22] 22.The system of claim 19, wherein the at least one layer comprises at least two layers displayed with different diameters.
- [c23] 23.The system of claim 22, wherein the different diameters represent different depths of investigation.
- [c24] 24.The system of claim 19, wherein the at least one layer is displayed in different transparency.
- [c25] 25.The system of claim 24, wherein the different transparency is set according to a selected function.
- [c26] 26.The system of claim 25, wherein the selected function is dependent on measurement values in the plurality of measurement data.
- [c27] 27.The system of claim 19, wherein the program further comprising instructions to enable displaying a measurement value associated with a cursor location.
- [c28] 28.The system of claim 27, wherein the cursor location is user selected.
- [c29] 29.The system of claim 19, wherein the plurality of measurement data comprise well logging data.

- [c30] 30.The system of claim 29, wherein the well logging data comprise at least one selected from the group consisting of resistivity data, neutron measurement data, gamma ray measurement data, nuclear magnetic resonance data, and acoustic measurement data.
- [c31] 31.The system of claim 19, wherein the program further comprising instructions to enable selectively displaying a portion of the borehole model and the at least one layer by removing an angular section of the borehole model and the at least one layer.
- [c32] 32.The system of claim 31, wherein the angular section is reference to a user coordinate.
- [c33] 33.The system of claim 19, wherein the borehole model and the at least one layer are displayed in a cross-section view.
- [c34] 34.The system of claim 19, wherein the program further comprising instructions to enable displaying a plane intercepting the borehole model.
- [c35] 35.The system of claim 34, wherein the plane is a dip plane.
- [c36] 36.The system of claim 34, wherein the program further comprising instructions to enable adjusting the plane to fit a pattern of measurement values displayed on the at least one layer.